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In the Claims:

1. (presently amended) A N-dimensional biometric security system comprising  
a station for receiving information representative of a user from the user  
and generating a signal responsive thereto;  
a first data base having a plurality of words and language rules for  
randomly generating one-time challenge phrases;  
a second data base having biometric models of the user therein; and  
a controller to receive and validate said signal as representative of the  
user, said controller communicating with said first data base for randomly  
generating a one-time challenge phrase from said plurality of words and  
language rules in said first data base and delivering said one-time challenge  
phrase to said station for the user to speak in response to validation of said  
signal, and said controller communicating with said station  
to receive a spoken response from the user to said delivered one-time  
challenge phrase and to generate a second signal representative of the spoken  
response,  
to process said second signal for speaker recognition and to issue a first  
validation signal in response to a match between said second signal and said  
stored biometric model,  
to process said second signal for speech recognition and to issue a  
second validation signal in response to a match between said second signal and  
said one-time challenge phrase, and

to validate the spoken response to said one-time challenge phrase as representative of the user in response to receiving said first validation signal and said second validation signal.

2. (presently amended) A method of identifying and validating a user comprising the steps of

initially inputting information representative of the user at a station;

generating a first signal responsive to the information;

receiving and validating the said first signal as representative of the user;

thereafter generating and delivering a randomly generated one-time challenge phrase at said station for the user to speak in response to validation of said first signal;

generating a second signal representative of a spoken response to said challenge phrase;

thereafter receiving and simultaneously processing the second signal for speaker verification and for speech recognition and issuing a first validation signal in response to speaker verification and a second validation signal in response to speech recognition; and

validating the second signal as representative of the user in response to issuance of said first validation signal and said second validation signal.

3. (canceled)

4. (presently amended) A N-dimensional biometric security system comprising a station for receiving input information representative of a user from the user and generating a first signal responsive thereto;

a first data base for storing a plurality of words and language rules for randomly generating one-time challenge phrases ~~corresponding to the user~~;

a second data base for storing a biometric model of the user ~~each of a multiplicity of users~~; and

a controller for receiving and validating said first signal as representative ~~of one of said multiplicity of users~~ the user, said controller being operatively connected to said first data base to generate and deliver a one-time randomly generated challenge phrase to said station in response to said first signal for the user to speak,

said controller communicating with said station to receive and compare a spoken response to said challenge phrase with said challenge phrase to verify said spoken response as matching said challenge phrase and to compare said spoken response to said stored biometric model of said ~~one~~ user and for validating said spoken response as representative of said ~~one~~ user in response to a match between said spoken response and said stored biometric model of said ~~one~~ user, said controller issuing an authentication signal in response to a verification of said spoken response as matching said challenge phrase and a validation of said spoken response as representative of said ~~one~~ user.

5. (presently amended) A method of identifying and validating a user comprising the steps of

receiving information representative of a user from the user at an input station and generating a first signal responsive thereto;

storing a plurality of words and language rules for randomly generating

~~one-time~~ challenge phrases in a first data base;

storing a biometric model of each of a multiplicity of users in a second data base;

randomly generating a one-time challenge phrase from said stored plurality of words and language rules and forwarding said one-time challenge phrase to said station in response to said first signal ~~as a challenge phrase~~ for the user to speak;

receiving a spoken response to said one-time challenge phrase;

comparing said spoken response to said one-time challenge phrase to verify said spoken response as matching said one-time challenge phrase;

comparing said spoken response to the stored biometric models to obtain a match between said spoken response and one of said stored biometric models.

issuing a validation signal in response to a match between said spoken response and one of said stored biometric models.

~~for validating said spoken response as representative of said one of said users in response to a match between said spoken response and said stored biometric model of said one of said users; and~~

issuing an authentication signal in response to a verification of said spoken response as matching said one-time challenge phrase and issuance of said a validation signal. ~~of said spoken response as representative of said one of said users.~~

6. (previously presented) A method as set forth in claim 5 wherein a user additionally selects a word phrase as a private and personal challenge phrase.

7. (previously presented) A method as set forth in claim 2 wherein a user additionally selects a word phrase as a private and personal challenge phrase.
8. (presently amended) A method as set forth in claim 2 further comprising the step of establishing a session time out limit in response to ~~validating~~ of said first signal ~~as representative of the user~~.
9. (canceled)
10. (previously presented) A method as set forth in claim 2 wherein said randomly generated one-time challenge phrase is a language subset specific to a subject area.
11. (presently amended) A method as set forth in claim 5 further comprising the step of establishing a session time out limit in response to ~~validating~~ of said first signal ~~as representative of the user~~.
12. (canceled)
13. (previously presented) A method as set forth in claim 5 wherein said randomly generated one-time challenge phrase is a language subset specific to a subject area.
14. (presently amended) A method as set forth in claim 5 further comprising the steps of encrypting and digitally signing a said spoken response to said one-time challenge phrase after reception thereof and subsequently decrypting said spoken response prior to said step of comparing said spoken response to the stored biometric models.
15. (presently amended) A speech N-dimensional biometric security system comprising

a station for receiving information indicative of a present user and generating a first signal responsive thereto;

a first data base having a plurality of words and language rules for randomly generating one-time challenge phrases;

a second data base having a plurality of biometric models, each said biometric model corresponding to a respective one of a plurality of authorized users; and

a controller to receive said first signal as indicative of the present user, said controller communicating with said first data base for randomly generating a one-time challenge phrase from said plurality of words and language rules in said first data base and delivering said one-time challenge phrase to said station for the present user to speak said one-time challenge phrase exactly, and

said controller communicating with said station to receive a spoken response from the present user of said delivered one-time challenge phrase

to process said spoken response for biometric speaker recognition and to ~~issue~~ produce a first validation signal as representative of an authorized user in response to a match between said spoken response and said stored biometric model for said authorized user,

to simultaneously process said spoken response for speech recognition and to ~~issue~~ produce a second validation signal as representative of said ~~one-time challenge phrase in response to~~ a match between said spoken response and said one-time challenge phrase, and

said controller to issue a positive authentication signal as representative of

an authorized user in response to said first validation signal and said second validation signal being simultaneously produced ~~received~~.

16. (presently amended) A speech N-dimensional biometric security system comprising

a first data base having a plurality of words and language rules for generating randomly determined one-time challenge phrases;

a second data base having a biometric model of an authorized user;

a station for receiving information indicative of a user and generating a first signal responsive thereto; and

a controller connected to said first data ~~date~~ base to randomly generate a one-time challenge phrase from said plurality of words and language rules in said first data base in response to said first signal and to deliver said one-time challenge phrase to said station for the user to speak said one-time challenge phrase exactly, and

said controller communicating with said station to receive a spoken response from the user of said delivered one-time challenge phrase

to process said spoken response for biometric speaker recognition and to issue produce a first validation signal as representative of an authorized user in response to a match between said spoken response and said stored biometric model for an authorized user, and

to simultaneously process said spoken response for speech recognition and to issue produce a second validation signal ~~as representative of said one-time challenge phrase in~~ response to a match between said spoken response

and said one-time challenge phrase, and

said controller to issue a positive authentication signal as representative of an authorized user in response to said first validation signal and said second validation signal being simultaneously produced ~~received~~.

17. (new) A speech N-dimensional biometric security system comprising

a station for receiving information indicative of a present user and generating a first signal responsive thereto;

a first data base having a plurality of words and language rules for randomly generating one-time challenge phrases;

a second data base having a plurality of biometric models, each said biometric model corresponding to a respective one of a plurality of authorized users; and

a controller to receive said first signal as indicative of the present user, said controller communicating with said first data base for randomly generating a one-time challenge phrase from said plurality of words and language rules in said first data base and delivering said one-time challenge phrase to said station for the present user to speak said one-time challenge phrase exactly, and

said controller communicating with said station to receive a spoken response from the present user of said delivered one-time challenge phrase

to process said spoken response for biometric speaker recognition and to produce a first validation signal as representative of said present user being an authorized user in response to a match between said spoken response and said stored biometric model for said present user,



to simultaneously process said spoken response for speech recognition and to produce a second validation signal as representative of a match between said spoken response and said one-time challenge phrase, and

said controller to issue a positive authentication signal as representative of said present user being an authorized user in response to said first validation signal and said second validation signal being simultaneously produced.